

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA ENGINEERING – SEMESTER – IV-EXAMINATION – WINTER 2015

Subject Code: 3345504**Date: 07/12/2015****Subject Name: Welding Technology-II****Time: 02:30 PM TO 5:00 PM****Total Marks: 70****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Each question carry equal marks (14 marks)

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|-------------|-----|---|-----------|
| Q.1 | (a) | Draw neat sketch and Explain working of GMAW Process. | 07 |
| | (b) | Describe Principle of GTAW process with neat sketch. | 07 |
| Q.2 | (a) | Explain working of CO2 welding Equipment with neat sketch. | 07 |
| | (b) | Draw neat sketch of Wire feed Mechanism of GMAW Process. | 07 |
| | | OR | |
| | (b) | Describe Working of GMAW torch with neat sketch. | 07 |
| Q.3 | (a) | Describe principle of FCAW with neat sketch. | 07 |
| | (b) | State advantages, limitations and applications of PAW. | 07 |
| | | OR | |
| Q.3 | (a) | Draw neat sketch and Explain functions of flux cored wire. | 07 |
| | (b) | Describe Principle of PAW with neat sketch. | 07 |
| Q.4 | (a) | State advantages, limitations and applications of Stud Welding. | 07 |
| | (b) | Describe EBW Process with neat sketch. | 07 |
| | | OR | |
| Q. 4 | (a) | Describe LBW Process with neat sketch. | 07 |
| | (b) | Describe Atomic Hydrogen Welding. Explain its working. | 07 |
| Q.5 | (a) | Draw neat sketch of Ultrasonic Welding. Explain its working. | 07 |
| | (b) | Draw WPS format. Describe meaning of its detail. | 07 |
| | | OR | |
| Q.5 | (a) | Prepare List of SEVEN common weld defects. State its Causes and Remedies. | 07 |
| | (b) | Write Index of ASME section-IX. State applications of ASME. | 07 |
